CLAIMS

- 1. A liquid crystal display device comprising:
- a polarizing plate;
- a pair of substrates at least one of which is transparent;
 - a pair of electrodes; and
 - a nematic liquid crystal;

said nematic liquid crystal:

being filled between the pair of substrates;

being aligned to be substantially perpendicular to the substrates when applying a voltage not higher than a threshold value between the electrodes;

having negative dielectric constant anisotropy;

undergoing change in tilt angle of alignment with respect to the substrates in accordance with applied voltage when applying a voltage not lower than a threshold value between the electrodes;

said liquid crystal display device:

20 having a voltage range in which a rate of change in retardation level with respect to temperature becomes substantially zero; and

displaying red or purple when voltage is applied at a maximum voltage value in the voltage range.

25 2. The liquid crystal display device according to claim 1, wherein when voltage is applied at a maximum voltage value in the voltage range, a color

displayed is present in the region that satisfies two expressions, x > 0.4 and y < 0.45, in the xy chromaticity coordinates.

- 3. The liquid crystal display device according to claim 1, which displays blue at a voltage value beyond the voltage range.
 - 4. The liquid crystal display device according to claim 1, which displays green by using a color filter.
- 5. The liquid crystal display device according to any one of claims 1 to 4, which displays black when no voltage is applied.
 - 6. A method for driving a liquid crystal display device comprising:
- 15 a polarizing plate;
 - a pair of substrates at least one of which is transparent;
 - a pair of electrodes; and
 - a nematic liquid crystal;
- 20 said nematic liquid crystal:

being filled between the pair of substrates;

being aligned to be substantially perpendicular to the substrates when a voltage not higher than a threshold value is applied across the electrodes;

25 having negative dielectric constant anisotropy; and

undergoing change in tilt angle of alignment with

5

respect to the substrates in accordance with applied voltage when applying a voltage not lower than a threshold value beween the electrodes;

the device further comprising a first pixel
having a voltage range in which a rate of change in
retardation level with respect to temperature becomes
substantially zero, and a second pixel provided with a
green color filter;

the method comprising the steps of:

applying voltage at a maximum voltage value in the voltage range when red or purple is displayed;

applying a voltage higher than the maximum voltage value in the voltage range when blue is displayed; and

applying voltage to the pixel with a green color filter when green is displayed.